10/11/2006 10569472.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1626GMS

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 5	MAY 11	KOREAPAT updates resume
NEWS 6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS 8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS 9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS 10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS 11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS 13	JUl 14	FSTA enhanced with Japanese patents
NEWS 14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS 15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 18	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS 19	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS 20	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 21	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 23	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:00:56 ON 11 OCT 2006

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.63	0.63

FILE 'REGISTRY' ENTERED AT 12:02:41 ON 11 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9
DICTIONARY FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

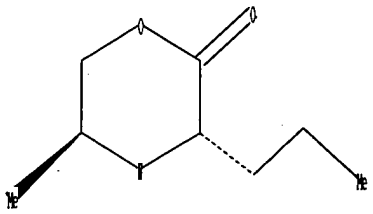
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

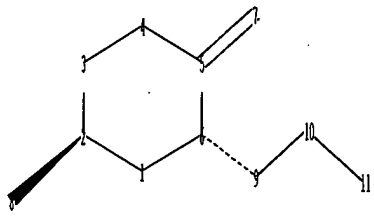
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10569472.str





chain nodes :
7 8 9 10 11
ring nodes :
1 2 3 4 5 6
chain bonds :
2-8 5-7 6-9 9-10 10-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9
exact bonds :
2-8 9-10 10-11
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS

Stereo Bonds:

8-2 (Single Wedge).

Stereo Chiral Centers:

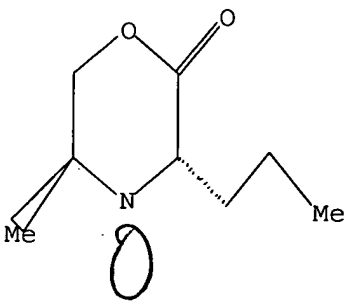
2 (Parity=Don't Care)

Stereo RSS Sets:

Type=Relative (Default). 1 Nodes= 2

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 12:02:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       82 TO ITERATE

100.0% PROCESSED       82 ITERATIONS                          1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         1097 TO     2183
PROJECTED ANSWERS:               1 TO       80

L2             1 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 12:03:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1621 TO ITERATE

100.0% PROCESSED     1621 ITERATIONS                          3 ANSWERS
SEARCH TIME: 00.00.01

L3             3 SEA SSS FUL L1

=> FIL HCAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               166.94     167.57

FILE 'HCAPLUS' ENTERED AT 12:03:12 ON 11 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)
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FILE COVERS 1907 - 11 Oct 2006  VOL 145 ISS 16
FILE LAST UPDATED: 10 Oct 2006  (20061010/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l3
L4             2 L3
```
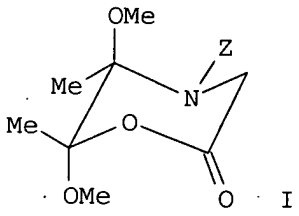

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:626640 HCAPLUS
DOCUMENT NUMBER: 141:314593
TITLE: The preparation and alkylation of a butanedione-derived chiral glycine equivalent and its use for the synthesis of α-amino acids and α,α-disubstituted amino acids
AUTHOR(S): Harding, Christopher I.; Dixon, Darren J.; Ley, Steven V.
CORPORATE SOURCE: Department of Chemistry, University of Cambridge, Cambridge, CB2 1EW, UK
SOURCE: Tetrahedron (2004), 60(35), 7679-7692
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:314593
GI

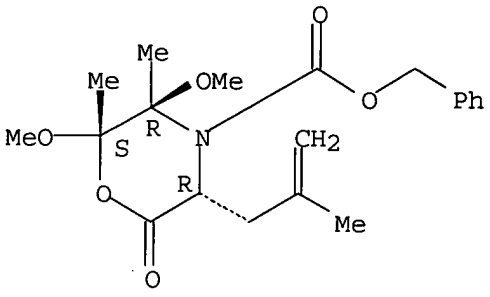


AB Benzyloxycarbonyl (Z)-protected glycine equivalent I has been prepared in enantiopure form and has been used in the synthesis of both α-substituted amino acids and α,α-disubstituted amino acids. The process involved deprotonation to form the corresponding enolates which underwent stereoselective alkylation with various electrophiles and upon hydrolysis gave the corresponding amino acid derivs. as enantiomerically pure products.

IT 763101-44-6P 763101-64-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and alkylation of butanedione-derived chiral glycine equivalent for synthesis of α-amino acids)

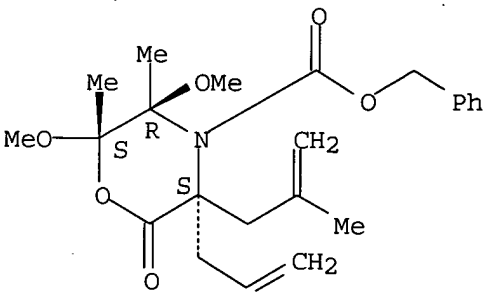
RN 763101-44-6 HCAPLUS
CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3-dimethyl-5-(2-methyl-2-propenyl)-6-oxo-, phenylmethyl ester, (2S,3R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 763101-64-0 HCAPLUS
CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3-dimethyl-5-(2-methyl-2-propenyl)-6-oxo-5-(2-propenyl)-, phenylmethyl ester, (2S,3R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:910218 HCAPLUS
DOCUMENT NUMBER: 139:365227
TITLE: New process for the synthesis of N-[(S)-1-carboxybutyl]-(S)-alanine esters and their use in the synthesis of perindopril
INVENTOR(S): Breard, Fabienne; Fugier, Claude
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1362845	A2	20031119	EP 2003-292145	20030901
EP 1362845	A3	20040331		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004270432	A1	20050317	AU 2004-270432	20040831
CA 2536926	AA	20050317	CA 2004-2536926	20040831
WO 2005023755	A1	20050317	WO 2004-FR2213	20040831

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CN 1835911	A	20060920	CN 2004-80023534	20040831
NO 2006001152	A	20060310	NO 2006-1152	20060310
PRIORITY APPLN. INFO.:			EP 2003-292145 A	20030901
			WO 2004-FR2213 W	20040831

OTHER SOURCE(S): CASREACT 139:365227; MARPAT 139:365227

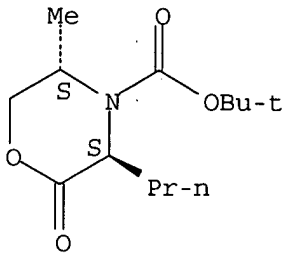
AB Title alanine derivs. (S)-RO2CCHPr-L-Ala-OH (R = C1-C6 alkyl) were prepared from N-protected (S)-5-methyl-2-morpholinone by propylation or allylation/hydrogenation, ring opening by LiOH, esterification, oxidation of the hydroxy group, and deprotection. In an example, N-[(S)-1-carbethoxybutyl]-(S)-alanine hydrochloride was prepared via allylation of Boc-protected (S)-5-methyl-2-morpholinone and treatment of tert-Bu (3S,5S)-5-methyl-3-propyl-2-oxo-4-morpholinecarboxylate with LiOH in aqueous MeCN and then EtI to afford intermediate Et (2S)-2-[(tert-butoxycarbonyl)[(1S)-2-hydroxy-1-methylethyl]amino]pentanoate.

IT 622401-89-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for synthesis of N-[(S)-carboxybutyl]-L-alanine esters for use in synthesis of perindopril)

RN 622401-89-2 HCAPLUS

CN 4-Morpholinecarboxylic acid, 5-methyl-2-oxo-3-propyl-, 1,1-dimethylethyl ester, (3S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.34	187.91
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.50	-1.50

FILE 'REGISTRY' ENTERED AT 12:05:25 ON 11 OCT 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9
DICTIONARY FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

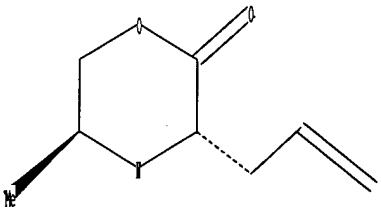
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

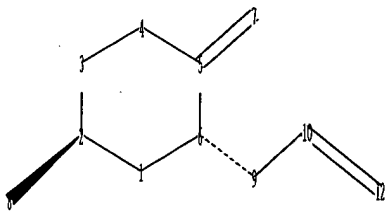
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10569472a.str





chain nodes :
7 8 9 10 12
ring nodes :
1 2 3 4 5 6
chain bonds :
2-8 5-7 6-9 9-10 10-12
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9
exact bonds :
2-8 9-10 10-12
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 12:CLASS

Stereo Bonds:

8-2 (Single Wedge).

Stereo Chiral Centers:

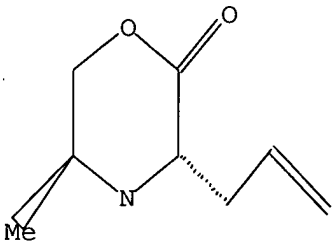
2 (Parity=Don't Care)

Stereo RSS Sets:

Type=Relative (Default). 1 Nodes= 2

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l5
SAMPLE SEARCH INITIATED 12:05:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 82 TO ITERATE

100.0% PROCESSED 82 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1097 TO 2183
PROJECTED ANSWERS: 0 TO 0

L6 0 SEA SSS SAM L5

=> s l5 sss full
FULL SEARCH INITIATED 12:05:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1621 TO ITERATE

100.0% PROCESSED 1621 ITERATIONS 10 ANSWERS
SEARCH TIME: 00.00.02

L7 10 SEA SSS FUL L5

=> FIL HCAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY 166.94 TOTAL SESSION 354.85

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION

CA SUBSCRIBER PRICE 0.00 -1.50

FILE 'HCAPLUS' ENTERED AT 12:06:00 ON 11 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Oct 2006 VOL 145 ISS 16
FILE LAST UPDATED: 10 Oct 2006 (20061010/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 5 L7

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	15.18	370.03

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.50

FILE 'REGISTRY' ENTERED AT 12:09:45 ON 11 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9
DICTIONARY FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

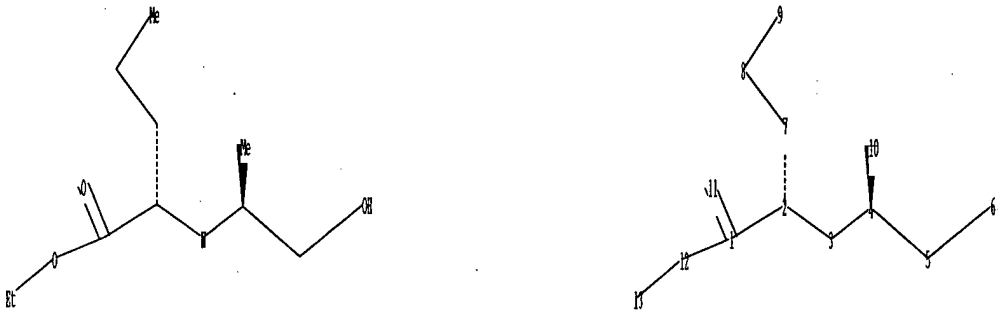
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information

on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10569472b.str



chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13
chain bonds :
1-2 1-11 1-12 2-3 2-7 3-4 4-5 4-10 5-6 7-8 8-9 12-13
exact/norm bonds :
1-11 1-12 2-3 2-7 3-4 5-6
exact bonds :
1-2 4-5 4-10 7-8 8-9 12-13

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS

Stereo Bonds:

10-4 (Single Wedge).

Stereo Chiral Centers:

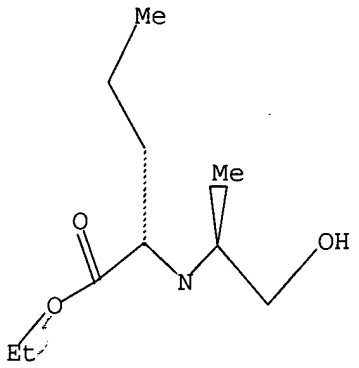
4 (Parity=Don't Care)

Stereo RSS Sets:

Type=Relative (Default). 1 Nodes= 4

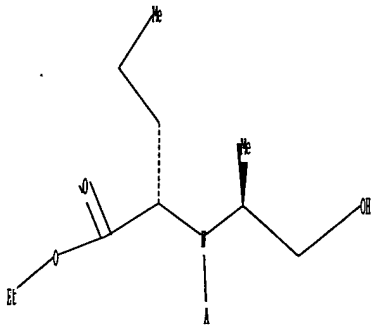
L9 STRUCTURE UPLOADED

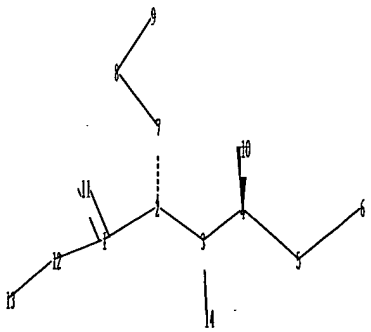
=> d 19
L9 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l9
SAMPLE SEARCH INITIATED 12:10:02 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     6066 TO ITERATE

 33.0% PROCESSED     2000 ITERATIONS                                  0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       116651 TO   125989
PROJECTED ANSWERS:               0 TO        0

L10            0 SEA SSS SAM L9

=> s l9 sss full
FULL SEARCH INITIATED 12:10:10 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   122888 TO ITERATE

100.0% PROCESSED   122888 ITERATIONS                                12 ANSWERS
SEARCH TIME: 00.00.02

L11           12 SEA SSS FUL L9

=>
Uploading C:\Program Files\Stnexp\Queries\10569472c.str
```





chain nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
1-2 1-11 1-12 2-3 2-7 3-4 3-14 4-5 4-10 5-6 7-8 8-9 12-13
exact/norm bonds :
1-11 1-12 2-3 2-7 3-4 3-14 5-6
exact bonds :
1-2 4-5 4-10 7-8 8-9 12-13

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS

Stereo Bonds:

10-4 (Single Wedge).

Stereo Chiral Centers:

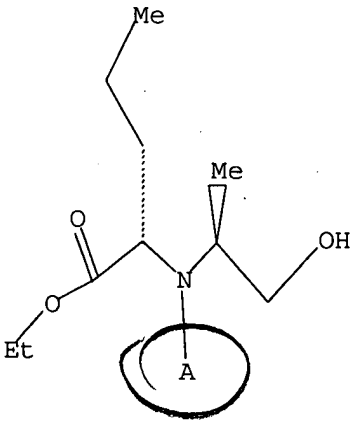
4 (Parity=Don't Care)

Stereo RSS Sets:

Type=Relative (Default). 1 Nodes= 4

L12 STRUCTURE UPLOADED

=> d l12
L12 HAS NO ANSWERS
L12 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l12
SAMPLE SEARCH INITIATED 12:11:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 6066 TO ITERATE

33.0% PROCESSED 2000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 116651 TO 125989
PROJECTED ANSWERS: 0 TO 0

L13 0 SEA SSS SAM L12

=> s l12 sss full
FULL SEARCH INITIATED 12:12:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 122888 TO ITERATE

100.0% PROCESSED 122888 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

L14 5 SEA SSS FUL L12

=> FIL HCAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 334.76 704.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -1.50

FILE 'HCAPLUS' ENTERED AT 12:12:12 ON 11 OCT 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 11 Oct 2006 VOL 145 ISS 16
FILE LAST UPDATED: 10 Oct 2006 (20061010/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 12:00:56 ON 11 OCT 2006)

FILE 'REGISTRY' ENTERED AT 12:02:41 ON 11 OCT 2006
L1 STRUCTURE UPLOADED
L2 1 S L1
L3 3 S L1 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:03:12 ON 11 OCT 2006

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L4             2 S L3

     FILE 'REGISTRY' ENTERED AT 12:05:25 ON 11 OCT 2006
L5               STRUCTURE UPLOADED
L6             0 S L5
L7            10 S L5 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 12:06:00 ON 11 OCT 2006
L8             5 S L7

     FILE 'REGISTRY' ENTERED AT 12:09:45 ON 11 OCT 2006
L9               STRUCTURE UPLOADED
L10            0 S L9
L11           12 S L9 SSS FULL
L12              STRUCTURE UPLOADED
L13            0 S L12
L14            5 S L12 SSS FULL

     FILE 'HCAPLUS' ENTERED AT 12:12:12 ON 11 OCT 2006

=> s l11
L15           50 L11

=> s l14
L16            2 L14

=> d l16 ibib abs hitstr tot

L16  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         2003:910218  HCAPLUS
DOCUMENT NUMBER:          139:365227
TITLE:                    New process for the synthesis of N-[(S)-1-
                          carboxybutyl]-(S)-alanine esters and their use in the
                          synthesis of perindopril
INVENTOR(S):              Breard, Fabienne; Fugier, Claude
PATENT ASSIGNEE(S):       Les Laboratoires Servier, Fr.
SOURCE:                   Eur. Pat. Appl., 5 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 French
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.            KIND   DATE        APPLICATION NO.          DATE
     ---------------       ----   --------    --------------------     --------
     EP 1362845             A2    20031119    EP 2003-292145           20030901
     EP 1362845             A3    20040331
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     AU 2004270432          A1    20050317    AU 2004-270432           20040831
     CA 2536926             AA    20050317    CA 2004-2536926          20040831
     WO 2005023755          A1    20050317    WO 2004-FR2213           20040831
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
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AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CN 1835911	A	20060920	CN 2004-80023534		20040831
NO 2006001152	A	20060310	NO 2006-1152		20060310
PRIORITY APPLN. INFO.:			EP 2003-292145	A	20030901
			WO 2004-FR2213	W	20040831

OTHER SOURCE(S): CASREACT 139:365227; MARPAT 139:365227

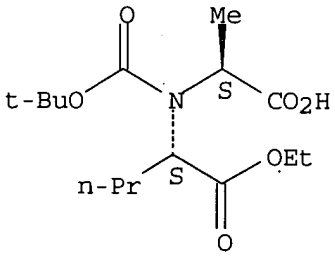
AB Title alanine derivs. (S)-RO2CCHPr-L-Ala-OH (R = C1-C6 alkyl) were prepared from N-protected (S)-5-methyl-2-morpholinone by propylation or allylation/hydrogenation, ring opening by LiOH, esterification, oxidation of the hydroxy group, and deprotection. In an example, N-[(S)-1-carbethoxybutyl]-(S)-alanine hydrochloride was prepared via allylation of Boc-protected (S)-5-methyl-2-morpholinone and treatment of tert-Bu (3S,5S)-5-methyl-3-propyl-2-oxo-4-morpholinecarboxylate with LiOH in aqueous MeCN and then EtI to afford intermediate Et (2S)-2-[(tert-butoxycarbonyl)[(1S)-2-hydroxy-1-methylethyl]amino]pentanoate.

IT 571147-33-6P 622401-90-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for synthesis of N-[(S)-carboxybutyl]-L-alanine esters for use in synthesis of perindopril)

RN 571147-33-6 HCAPLUS

CN L-Norvaline, N-[(1S)-1-carboxyethyl]-N-[(1,1-dimethylethoxy)carbonyl]-, 1-ethyl ester (9CI) (CA INDEX NAME)

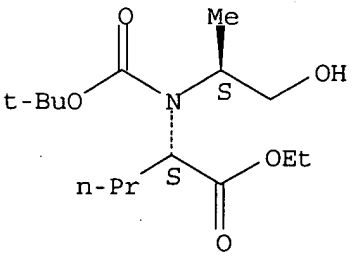
Absolute stereochemistry.



RN 622401-90-5 HCAPLUS

CN L-Norvaline, N-[(1,1-dimethylethoxy)carbonyl]-N-[(1S)-2-hydroxy-1-methylethyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L16 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:609507 HCAPLUS
DOCUMENT NUMBER: 139:149930
TITLE: Process for the preparation of high purity perindopril and intermediates useful in its synthesis
INVENTOR(S): Simig, Gyula; Mezei, Tibor; Porcs-Makkay, Marta; Mandi, Attila
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1333026	A1	20030806	EP 2002-290206	20020130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2474003	AA	20030807	CA 2003-2474003	20030129
WO 2003064388	A2	20030807	WO 2003-IB691	20030129
WO 2003064388	A3	20040205		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EE 200400107	A	20041015	EE 2004-107	20030129
BR 2003007293	A	20041221	BR 2003-7293	20030129
CN 1622936	A	20050601	CN 2003-802714	20030129
US 2005119492	A1	20050602	US 2003-503272	20030129
JP 2005521667	T2	20050721	JP 2003-564011	20030129
NO 2004003472	A	20040820	NO 2004-3472	20040820
BG 108858	A	20050531	BG 2004-108858	20040827

PRIORITY APPLN. INFO.:	EP 2002-290206	A	20020130
	WO 2003-IB691	W	20030129

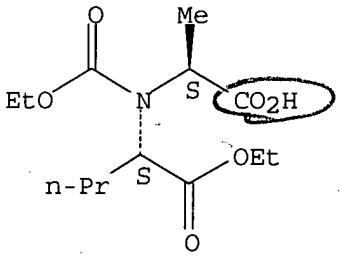
OTHER SOURCE(S): MARPAT 139:149930

AB The invention relates to 1-[2(S)-[1(S)-(ethoxycarbonyl)butylamino]propionyl]-(3aS,7aS)octahydroindole-2(S)-carboxylic acid (perindopril) and its tert-butylamine salt, free of contaminants derivable from dicyclohexylcarbodiimide, and a process for their synthesis. The invention also relates to N-[1-(ethoxycarbonyl)butyl]-N-(alkoxycarbonyl)alanine intermediates used in the synthesis of perindopril, a known ACE inhibitor. Thus, N-[1-(ethoxycarbonyl)butyl]-N-(ethoxycarbonyl)alanine, prepared by ethoxycarbonylation of N-[1-(ethoxycarbonyl)butyl]alanine, was treated with thionyl chloride in CH2Cl2 and acylated by perhydroindole-2-carboxylic acid in THF at reflux for 4-4.5 h. The product was treated with tert-butylamine to afford 55% perindopril eburmine.

IT 571147-31-4P 571147-32-5P 571147-33-6P
571147-34-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparation of high purity perindopril and intermediates useful

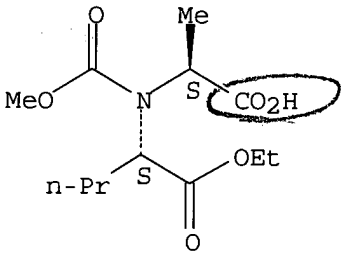
in its synthesis)
RN 571147-31-4 HCAPLUS
CN L-Norvaline, N-[(1S)-1-carboxyethyl]-N-(ethoxycarbonyl)-, 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



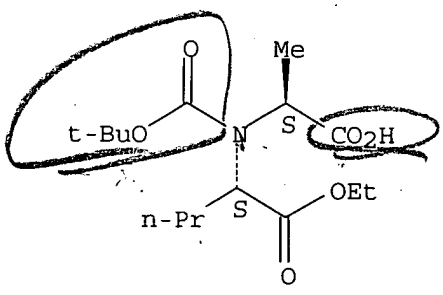
RN 571147-32-5 HCAPLUS
CN L-Norvaline, N-[(1S)-1-carboxyethyl]-N-(methoxycarbonyl)-, 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



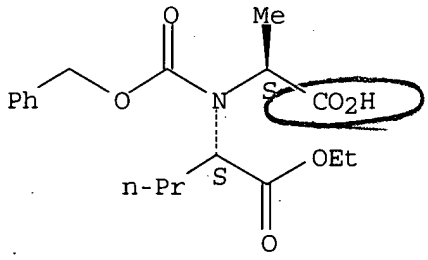
RN 571147-33-6 HCAPLUS
CN L-Norvaline, N-[(1S)-1-carboxyethyl]-N-[(1,1-dimethylethoxy)carbonyl]-, 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 571147-34-7 HCAPLUS
CN L-Norvaline, N-[(1S)-1-carboxyethyl]-N-[(phenylmethoxy)carbonyl]-, 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

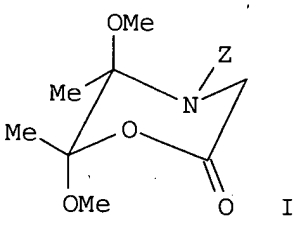


REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l8 ibib abs hitstr tot

L8 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:626640 HCAPLUS
DOCUMENT NUMBER: 141:314593
TITLE: The preparation and alkylation of a butanedione-derived chiral glycine equivalent and its use for the synthesis of α-amino acids and α,α-disubstituted amino acids
AUTHOR(S): Harding, Christopher I.; Dixon, Darren J.; Ley, Steven V.
CORPORATE SOURCE: Department of Chemistry, University of Cambridge, Cambridge, CB2 1EW, UK
SOURCE: Tetrahedron (2004), 60(35), 7679-7692
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:314593
GI

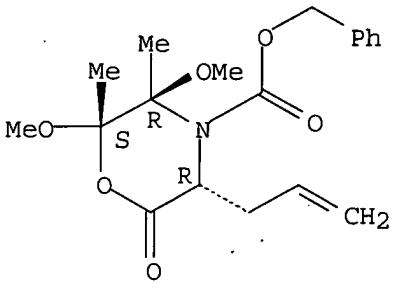


AB Benzyloxycarbonyl (Z)-protected glycine equivalent I has been prepared in enantiopure form and has been used in the synthesis of both α-substituted amino acids and α,α-disubstituted amino acids. The process involved deprotonation to form the corresponding enolates which underwent stereoselective alkylation with various electrophiles and upon hydrolysis gave the corresponding amino acid derivs. as enantiomerically pure products.

IT 565234-18-6P 763101-44-6P 763101-62-8P
763101-64-0P 763101-66-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

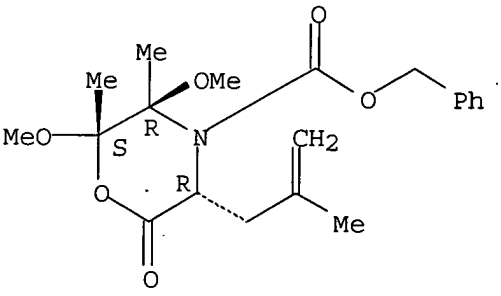
(preparation and alkylation of butanedione-derived chiral glycine equivalent for
synthesis of α-amino acids)
RN 565234-18-6 HCAPLUS
CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3-dimethyl-6-oxo-5-(2-propenyl)-, phenylmethyl ester, (2S,3R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



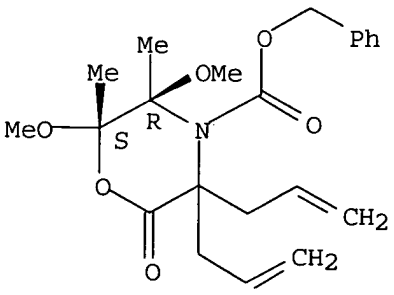
RN 763101-44-6 HCAPLUS
CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3-dimethyl-5-(2-methyl-2-propenyl)-6-oxo-, phenylmethyl ester, (2S,3R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 763101-62-8 HCAPLUS
CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3-dimethyl-6-oxo-5,5-di-2-propenyl-, phenylmethyl ester, (2S,3R)- (9CI) (CA INDEX NAME)

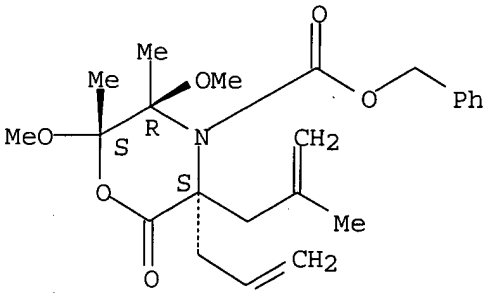
Absolute stereochemistry. Rotation (+).



RN 763101-64-0 HCAPLUS
CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3-dimethyl-5-(2-methyl-2-

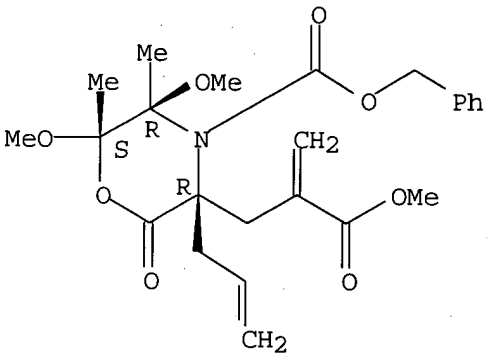
propenyl)-6-oxo-5-(2-propenyl)-, phenylmethyl ester, (2S,3R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



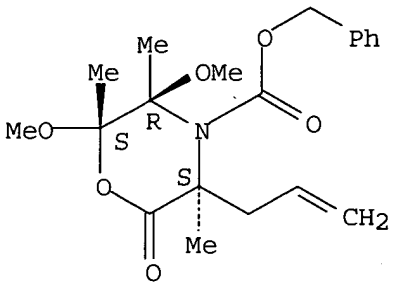
RN 763101-66-2 HCAPLUS
CN 3-Morpholinepropanoic acid, 5,6-dimethoxy-5,6-dimethyl-α-methylene-2-oxo-4-[(phenylmethoxy)carbonyl]-3-(2-propenyl)-, methyl ester, (3R,5R,6S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 763101-48-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and alkylation of butanedione-derived chiral glycine equivalent for
synthesis of α-amino acids)
RN 763101-48-0 HCAPLUS
CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3,5-trimethyl-6-oxo-5-(2-propenyl)-, phenylmethyl ester, (2S,3R,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:910218 HCAPLUS
DOCUMENT NUMBER: 139:365227
TITLE: New process for the synthesis of N-[(S)-1-carboxybutyl]-(S)-alanine esters and their use in the synthesis of perindopril
INVENTOR(S): Breard, Fabienne; Fugier, Claude
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1362845	A2	20031119	EP 2003-292145	20030901
EP 1362845	A3	20040331		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004270432	A1	20050317	AU 2004-270432	20040831
CA 2536926	AA	20050317	CA 2004-2536926	20040831
WO 2005023755	A1	20050317	WO 2004-FR2213	20040831
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1835911	A	20060920	CN 2004-80023534	20040831
NO 2006001152	A	20060310	NO 2006-1152	20060310

PRIORITY APPLN. INFO.: EP 2003-292145 A 20030901
WO 2004-FR2213 W 20040831
OTHER SOURCE(S): CASREACT 139:365227; MARPAT 139:365227

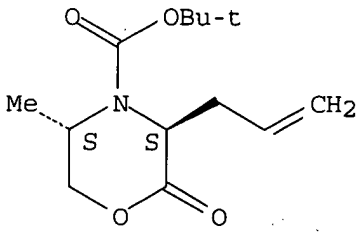
AB Title alanine derivs. (S)-RO2CCHPr-L-Ala-OH (R = C1-C6 alkyl) were prepared from N-protected (S)-5-methyl-2-morpholinone by propylation or allylation/hydrogenation, ring opening by LiOH, esterification, oxidation of

the hydroxy group, and deprotection. In an example, N-[(S)-1-carbethoxybutyl]-(S)-alanine hydrochloride was prepared via allylation of Boc-protected (S)-5-methyl-2-morpholinone and treatment of tert-Bu (3S,5S)-5-methyl-3-propyl-2-oxo-4-morpholinecarboxylate with LiOH in aqueous MeCN and then EtI to afford intermediate Et (2S)-2-[(tert-butoxycarbonyl)[(1S)-2-hydroxy-1-methylethyl]amino]pentanoate.

IT 141409-83-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for synthesis of N-[(S)-carboxybutyl]-L-alanine esters for use in synthesis of perindopril)

RN 141409-83-8 HCAPLUS
CN 4-Morpholinecarboxylic acid, 5-methyl-2-oxo-3-(2-propenyl)-, 1,1-dimethylethyl ester, (3S,5S)- (9CI) (CA INDEX NAME)

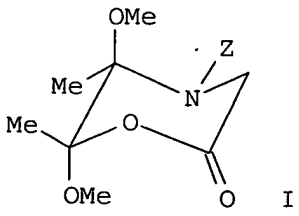
Absolute stereochemistry.



L8 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	2003:107383 HCAPLUS
DOCUMENT NUMBER:	139:117664
TITLE:	A 2,3-butanedione protected chiral glycine equivalent - a new building block for the stereoselective synthesis of enantiopure N-protected α-amino acids
AUTHOR(S):	Dixon, Darren J.; Harding, Christopher I.; Ley, Steven V.; Tilbrook, D. Matthew G.
CORPORATE SOURCE:	Department of Chemistry, University of Cambridge, Cambridge, CB2 1EW, UK
SOURCE:	Chemical Communications (Cambridge, United Kingdom) (2003), (4), 468-469 CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER:	Royal Society of Chemistry
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 139:117664

GI



I

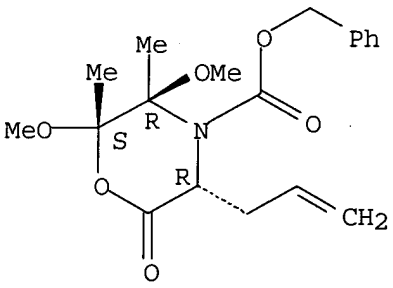
AB A new chiral glycine equivalent I (Z = benzyloxycarbonyl) has been synthesized from glycidol using a chiral memory protocol and its use in the synthesis of N-Z protected α-amino acids was demonstrated in a series of diastereoselective lithium enolate alkylation reactions and subsequent acid hydrolyzes.

IT 565234-18-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(butanedione-protected chiral glycine equivalent as building block for stereoselective synthesis of N-protected α-amino acids)

RN 565234-18-6 HCAPLUS

CN 4-Morpholinecarboxylic acid, 2,3-dimethoxy-2,3-dimethyl-6-oxo-5-(2-propenyl)-, phenylmethyl ester, (2S,3R,5R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:273266 HCAPLUS

DOCUMENT NUMBER: 122:133089

TITLE: Synthesis, structure and reactions of chiral oxazinones derived from L-ephedrine

AUTHOR(S): Chang, Chih-Jung; Fang, Jim-Min; Lee, Gene-Hsian; Wang, Yu

CORPORATE SOURCE: Dep. Chem., National Taiwan Univ., Taipei, 106, Taiwan

SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1994), (24), 3587-93
CODEN: JCPRB4; ISSN: 0300-922X

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:133089

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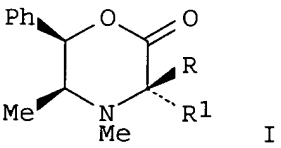


I

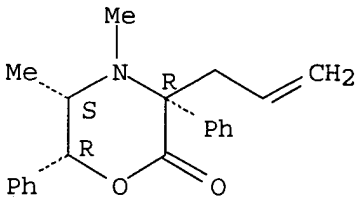
AB Optically pure 4,5-dimethyl-3,6-diphenylperhydro-1,4-oxazin-2-one I (R = Ph, R1 = H) (II) and 4,5-dimethyl-6-phenyl-3-(2-phenylvinyl)perhydro-1,4-

oxazin-2-one I (R = styryl, R1 = H) (III) have been prepared by condensation of ephedrine, potassium cyanide and benzaldehyde or cinnamaldehyde. The lithium enolates of compds. II and III reacted with haloalkanes in a stereospecific manner (si-attack) to give the 3-substituted derivs. The allylic enolate of III was selectively hydroxylated with oxygen or m-CPBA at the α-site to give I (R = styryl, R1 = OH) (IV). Palladium-catalyzed substitution of IV acetate with malonate or phenoxide ions occurred also at the α-site. Acid-catalyzed rearrangement of IV in ethanol gave an 2-ethoxyperhydro-1,4-oxazin-3-one, which reacted with trimethylsilyl cyanide to give a 2-cyano derivative.

IT 160978-68-7P 160978-72-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

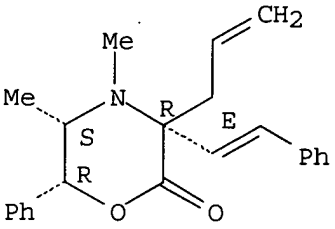
RN 160978-68-7 HCAPLUS
CN 2-Morpholinone, 4,5-dimethyl-3,6-diphenyl-3-(2-propenyl)-, [3R-(3α,5α,6α)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 160978-72-3 HCAPLUS
CN 2-Morpholinone, 4,5-dimethyl-6-phenyl-3-(2-phenylethenyl)-3-(2-propenyl)-, [3R-[3α(E),5α,6α]]- (9CI) (CA INDEX NAME)

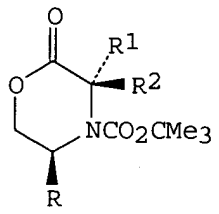
Absolute stereochemistry.
Double bond geometry as shown.



L8 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:	1992:235546 HCAPLUS
DOCUMENT NUMBER:	116:235546
TITLE:	Synthesis and structure determination of (3S,5S)-2,3,5,6-tetrahydro-3,5-dialkyl-N-(tert-butyloxycarbonyl)-4H-1,4-oxazine-2-ones
AUTHOR(S):	Baker, William R.; Condon, Stephen L.; Spanton, Stephen
CORPORATE SOURCE:	Pharm. Prod. Div., Abbott Lab., Abbott Park, IL, 60064, USA
SOURCE:	Tetrahedron Letters (1992), 33(12), 1573-6 CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE:	Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:235546
GI



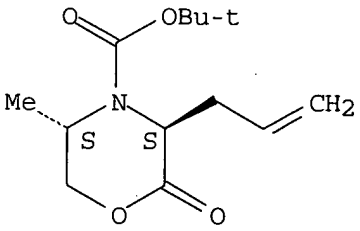
I

AB (5S)-5-Alkyl-N-(tert-butoxycarbonyl)-4H-1,4-oxazin-2-ones I (R = Me, CHMe2, Bu, cyclohexylmethyl, CH2Ph, R1 = R2 =H), which are readily prepared from optically pure HOCH2CHRNH2 and BrCH2CO2Et, alkylate selectively at the C-3 position with H2C:CHCH2Br to give I (R1 = CH2CH:CH2, R2 = H; R1 = H, R2 = CH2CH:CH2) where I (R1 = CH2CH:CH2, R2 = H) was the major or sole product.

IT 141409-83-8P 141436-30-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

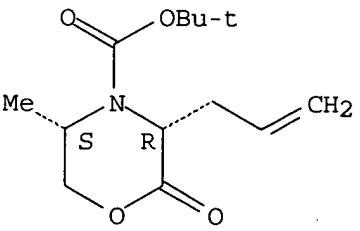
RN 141409-83-8 HCAPLUS
CN 4-Morpholinecarboxylic acid, 5-methyl-2-oxo-3-(2-propenyl)-, 1,1-dimethylethyl ester, (3S,5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 141436-30-8 HCAPLUS
CN 4-Morpholinecarboxylic acid, 5-methyl-2-oxo-3-(2-propenyl)-, 1,1-dimethylethyl ester, (3R-cis)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	50.95	755.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.25	-6.75

STN INTERNATIONAL LOGOFF AT 12:15:52 ON 11 OCT 2006

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	4	MAY 10	CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS	5	MAY 11	KOREAPAT updates resume
NEWS	6	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS	7	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAplus and USPATFULL/USPAT2
NEWS	8	MAY 30	The F-Term thesaurus is now available in CA/CAplus
NEWS	9	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS	10	JUN 26	TULSA/TULSA2 reloaded and enhanced with new search and and display fields
NEWS	11	JUN 28	Price changes in full-text patent databases EPFULL and PCTFULL
NEWS	12	JUl 11	CHEMSAFE reloaded and enhanced
NEWS	13	JUl 14	FSTA enhanced with Japanese patents
NEWS	14	JUl 19	Coverage of Research Disclosure reinstated in DWPI
NEWS	15	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS	16	AUG 28	ADISCTI Reloaded and Enhanced
NEWS	17	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS	18	SEP 11	CA/CAplus enhanced with more pre-1907 records
NEWS	19	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS	20	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS	21	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS	22	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS	23	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme

NEWS EXPRESS	JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
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FILE 'HOME' ENTERED AT 12:31:56 ON 11 OCT 2006

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THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
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Choice (Y/n):
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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DICTIONARY FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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Uploading C:\Program Files\Stnexp\Queries\10569472d.str

L1 STRUCTURE UPLOADED

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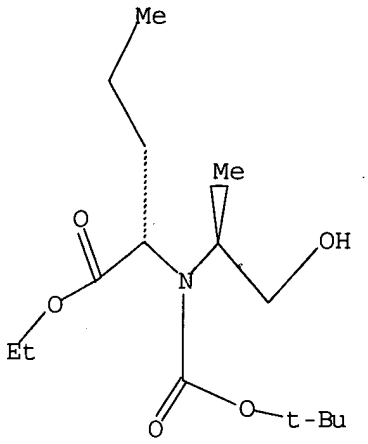
L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -      150 TO ITERATE

100.0% PROCESSED      150 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         2266 TO     3734
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 12:32:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     3200 TO ITERATE

100.0% PROCESSED     3200 ITERATIONS                          2 ANSWERS
SEARCH TIME: 00.00.01

L3            2 SEA SSS FUL L1

=> FIL HCAPLUS
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             166.94     167.15

FILE 'HCAPLUS' ENTERED AT 12:32:37 ON 11 OCT 2006
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FILE COVERS 1907 - 11 Oct 2006 VOL 145 ISS 16
FILE LAST UPDATED: 10 Oct 2006 (20061010/ED)

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L4 2 L3

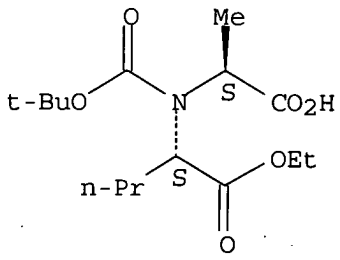
=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:910218 HCAPLUS
DOCUMENT NUMBER: 139:365227
TITLE: New process for the synthesis of N-[(S)-1-carboxybutyl]-(S)-alanine esters and their use in the synthesis of perindopril
INVENTOR(S): Breard, Fabienne; Fugier, Claude
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1362845	A2	20031119	EP 2003-292145	20030901
EP 1362845	A3	20040331		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
AU 2004270432	A1	20050317	AU 2004-270432	20040831
CA 2536926	AA	20050317	CA 2004-2536926	20040831
WO 2005023755	A1	20050317	WO 2004-FR2213	20040831
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CN 1835911	A	20060920	CN 2004-80023534	20040831
NO 2006001152	A	20060310	NO 2006-1152	20060310

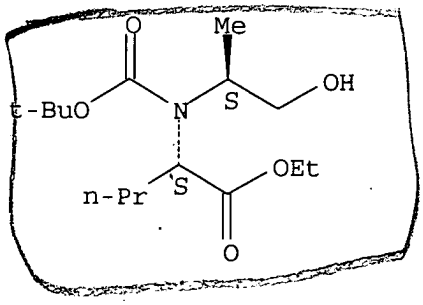
PRIORITY APPLN. INFO.: EP 2003-292145 A 20030901
WO 2004-FR2213 W 20040831
OTHER SOURCE(S): CASREACT 139:365227; MARPAT 139:365227
AB Title alanine derivs. (S)-RO2CCHPr-L-Ala-OH (R = C1-C6 alkyl) were prepared from N-protected (S)-5-methyl-2-morpholinone by propylation or allylation/hydrogenation, ring opening by LiOH, esterification, oxidation of the hydroxy group, and deprotection. In an example, N-[(S)-1-carbethoxybutyl]-(S)-alanine hydrochloride was prepared via allylation of Boc-protected (S)-5-methyl-2-morpholinone and treatment of tert-Bu (3S,5S)-5-methyl-3-propyl-2-oxo-4-morpholinecarboxylate with LiOH in aqueous MeCN and then EtI to afford intermediate Et (2S)-2-[(tert-butoxycarbonyl)[(1S)-2-hydroxy-1-methylethyl]amino]pentanoate.
IT 571147-33-6P 622401-90-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for synthesis of N-[(S)-carboxybutyl]-L-alanine esters for use in synthesis of perindopril)
RN 571147-33-6 HCAPLUS
CN L-Norvaline, N-[(1S)-1-carboxyethyl]-N-[(1,1-dimethylethoxy)carbonyl]-, 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 622401-90-5 HCAPLUS
CN L-Norvaline, N-[(1,1-dimethylethoxy)carbonyl]-N-[(1S)-2-hydroxy-1-methylethyl]-, ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:609507 HCAPLUS
DOCUMENT NUMBER: 139:149930
TITLE: Process for the preparation of high purity perindopril and intermediates useful in its synthesis
INVENTOR(S): Simig, Gyula; Mezei, Tibor; Porcs-Makkay, Marta;

Mandi, Attila
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1333026	A1	20030806	EP 2002-290206	20020130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2474003	AA	20030807	CA 2003-2474003	20030129
WO 2003064388	A2	20030807	WO 2003-IB691	20030129
WO 2003064388	A3	20040205		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EE 200400107	A	20041015	EE 2004-107	20030129
BR 2003007293	A	20041221	BR 2003-7293	20030129
CN 1622936	A	20050601	CN 2003-802714	20030129
US 2005119492	A1	20050602	US 2003-503272	20030129
JP 2005521667	T2	20050721	JP 2003-564011	20030129
NO 2004003472	A	20040820	NO 2004-3472	20040820
BG 108858	A	20050531	BG 2004-108858	20040827

PRIORITY APPLN. INFO.: EP 2002-290206 A 20020130
WO 2003-IB691 W 20030129

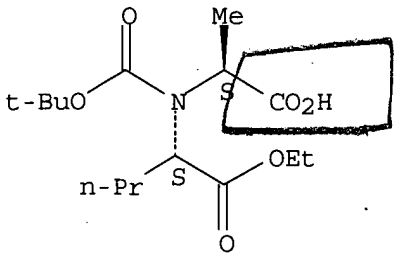
OTHER SOURCE(S): MARPAT 139:149930

AB The invention relates to 1-[2(S)-[1(S)-(ethoxycarbonyl)butylamino]propionyl]-(3aS,7aS)octahydroindole-2(S)-carboxylic acid (perindopril) and its tert-butylamine salt, free of contaminants derivable from dicyclohexylcarbodiimide, and a process for their synthesis. The invention also relates to N-[1-(ethoxycarbonyl)butyl]-N-(alkoxycarbonyl)alanine intermediates used in the synthesis of perindopril, a known ACE inhibitor. Thus, N-[1-(ethoxycarbonyl)butyl]-N-(ethoxycarbonyl)alanine, prepared by ethoxycarbonylation of N-[1-(ethoxycarbonyl)butyl]alanine, was treated with thionyl chloride in CH2Cl2 and acylated by perhydroindole-2-carboxylic acid in THF at reflux for 4-4.5 h. The product was treated with tert-butylamine to afford 55% perindopril eburmine.

IT 571147-33-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for preparation of high purity perindopril and intermediates useful in its synthesis)

RN 571147-33-6 HCAPLUS
CN L-Norvaline, N-[(1S)-1-carboxyethyl]-N-[(1,1-dimethylethoxy)carbonyl]-, 1-ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT